

EFFECT OF GRINDING PROCESS PARAMETERS
ON SURFACE ROUGHNESS OF ALUMINIUM
ALLOY 6061-T6

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EFFECT OF GRINDING PROCESS PARAMETERS ON SURFACE ROUGHNESS
OF ALUMINIUM ALLOY 6061-T6

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A report submitted in partial fulfilment of the requirements
for the award of the degree of
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SUPERVISOR'S DECLARATION

We hereby declare that we have checked this project and in our opinion this project is satisfactory in terms of scope and quality for the award of the degree of Bachelor of Mechanical Engineering with Manufacturing.

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I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged. The thesis has not been accepted for any degree and is not concurrently submitted for award of other degree.

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TABLE OF CONTENT S

	Page
SUPERVISOR’S DECLARATION	ii
STUDENT’S DECLARATION	iii
ACKNOWLEDGEMENTS	iv
ABSTRACT	vi
ABSTRAK	vii
TABLE OF CONTENTS	viii
LIST OF TABLES	xi
LIST OF FIGURES	xii
LIST OF SYMBOLS	xiv
LIST OF ABBREVIATIONS	xv
CHAPTER 1 INTRODUCTION	
1.1 Introduction	1
1.2 Problem Statement	2
1.3 Objective	2
1.4 Scope	2
1.4.1 Study about machine and material	2
1.4.2 Design the experiment	3
1.4.3 Analysis the data	3
1.4.4 Interpreting the data	4
1.5 Arrangement of thesis	4
1.5.1 Chapter 1	4
1.5.2 Chapter 2	5
1.5.3 Chapter 3	5
1.5.4 Chapter 4	5
1.5.5 Chapter 5	5

CHAPTER 2 LITERATURE REVIEW

2.1	Introduction	9
2.2	Machining of aluminium alloy 6061-T6	9
2.2.1	Effect of CNC end milling process on surface roughness Of aluminium alloys 6061-T6	10
2.2.2	Effect of grinding process on surface roughness of copper And zinc	12
2.3	Grinding of aluminium alloy 6061-T6	13
2.3.1	Effect of multi-pass grinding to the surface roughness	13
2.3.2	Effect of depth of cut to the surface roughness	13
2.3.3	Effect of coolant to the surface roughness	14

CHAPTER 3 METHODOLOGY

3.1	Introduction	15
3.2	Material	15
3.3	Grinding process	17
3.4	Design of experiment	18
3.4.1	Selection of parameters	18
3.4.2	Experiment design layout	20
3.4.3	Conducting experiment	21
3.5	Measurement and result	24
3.6	Surface roughness	25
3.7	Analysis of the result	27

CHAPTER 4 RESULTS AND DISCUSSION

4.1	Introduction	28
4.2	Results of experiments	28
4.3	Analysis graph of results	30
4.4	Analysis for variance (ANOVA) by using MINITAB software	34
4.4.1	Introduction of ANOVA	34
4.4.2	Analysis of ANOVA	35
4.4.3	Discussion of ANOVA	37

CHAPTER 5 CONCLUSION AND RECOMMENDATIONS

5.1	Introduction	39
5.2	Conclusions	39
5.3	Recommendations for the Future Research	40

REFERENCES	41
-------------------	----

APPENDICES	43
-------------------	----

A	43
---	----

B	49
---	----

C	51
---	----

LIST OF TABLES

Table No.		Page
1.1	Gant chart final year project 1	7
1.2	Gant chart final year project 2	8
2.1	The data of results from journal	10
3.1	Typical composition of aluminium alloys 6061-T6	15
3.2	Physical properties of aluminium alloys 6061-T6	16
3.3	Mechanical Properties of aluminium alloys 6061-T6	16
3.4	Table of experimental conditions	18
3.5	Table of experimental layout	20
3.6	Surface roughness table from engineer's handbook	26
4.1	The results surface roughness when use coolant (oil) and without coolant (dry grinding).	29
4.2	List of variables types of component	36
4.3	Result from ANOVA analysis	36

LIST OF FIGURES

Figure No.		Page
1.1	Research design flowchart	6
2.1	Scatter plot of measured Ra and the predicted Ra of the multiple regression prediction model	12
2.2	The graph surface roughness against depth of cut when transverse speed 1.46 m/min	13
2.3	The graph surface roughness against depth of cut when work piece speed 64 rpm	14
3.1	Grinding Machine in FKM laboratory, University Malaysia Pahang.	17
3.2	Operation panel	17
3.3	Left side is hand wheel for manual movement of working table and the right side is hand wheel for feeding of saddle.	18
3.4	The working table, wheel head and coolant hose.	18
3.5	The material of aluminium 6061-T6	19
3.6	The dimension of blocks (100 x 100 x 64) mm	19
3.7	The T-shape of work piece	21
3.8	Top view of work piece with the dimension in millimeters (mm)	22
3.9	The work piece had been cut with bend saw	22

3.10	The milling machine.	22
3.11	Shows face milling to remove slightly surface of work piece before start	23
3.12	The four holes had been done by using milling machine.	23
3.13	The milling machine to make the T- shape	23
3.14	Shows when grinding process was running.	24
3.15	Mahr Perthometer S2 device.	25
3.16	Coordinates used for surface roughness measurement by using Eqs.(1) and (2). Courtesy: Serope Kapakjian and Steven R. Schmind (2000)	26
4.1	Effect of number of passes on surface roughness (with coolant)	30
4.2	Effect of number of passes on surface roughness (dry grinding)	31
4.3	Effect of depth of cut on surface roughness (with coolant)	32
4.4	Effect of depth of cut on surface roughness (dry grinding)	33

LIST OF SYMBOLS

mm	Millimeter
m/s	Meter per second
n	Number
mm/s	Millimeter per second
μm	Micron meter
rpm	Revolutions per minute
in	Inch
Ra	Arithmetic mean value for surface roughness
$\mu\text{ in}$	Micron inch
g/cm^3	Gram per centimeter cube
GPa	Giga pascal
$^{\circ}\text{C}$	Degree celsius

LIST OF ABBREVIATIONS

AA	Aluminium alloy
FKM	Faculty of mechanical engineering
ASME	American society mechanical engineering
FYP	Final year project
Si	Silicon
Cu	Copper
Mg	Magnesium
Cr	Chromium
CNC	Computer numerical control
DOC	Depth of cut
ANOVA	Analysis of variance
SS	Sum of squares
df	Degree of freedom
MS	Mean Square
F	Fisher's ratio
P	Probability value